



Performance Data Sheet

AVC5542EXN

General Information

Model	AVC5542EXN	Refrigerant	R-22
Test Condition	ASHRAE	Performance Test Voltage	230V ~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	Motor Type	PSC

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
-15	Btu/h	13000	12100					
	Watts	1590	1630					
	Amps	7.26	7.39					
	Lb/h	168	160					
-10	Btu/h	14200	13300	11800				
	Watts	1760	1830	1840				
	Amps	7.91	8.20	8.22				
	Lb/h	183	177	162				
-5	Btu/h	16000	15100	13500	11500			
	Watts	1920	2010	2050	2040			
	Amps	8.49	8.94	9.12	9.06			
	Lb/h	205	199	186	165			
0	Btu/h	18300	17300	15700	13700	11400		
	Watts	2050	2170	2240	2270	2240		
	Amps	9.01	9.62	9.95	10.0	9.94		
	Lb/h	234	228	215	195	170		
5	Btu/h	21200	20100	18400	16200	13900		
	Watts	2170	2320	2420	2480	2480		
	Amps	9.47	10.2	10.7	11.0	11.0		
	Lb/h	268	263	249	230	206		
10	Btu/h	24600	23300	21400	19200	16700	14200	11600
	Watts	2270	2450	2580	2670	2710	2700	2640
	Amps	9.86	10.8	11.4	11.8	12.0	12.0	11.9
	Lb/h	309	303	290	270	247	219	189
15	Btu/h	28500	27000	25000	22600	19900	17200	14600
	Watts	2350	2560	2730	2850	2920	2950	2940
	Amps	10.2	11.3	12.1	12.6	13.0	13.1	13.1
	Lb/h	356	349	335	316	292	264	235
20	Btu/h	33000	31200	28900	26300	23500	20600	17900
	Watts	2420	2660	2860	3010	3120	3190	3210
	Amps	10.4	11.7	12.6	13.3	13.8	14.2	14.3
	Lb/h	408	400	386	366	341	314	285

25	Btu/h	37900	35900	33400	30500	27400	24300	21400
	Watts	2470	2740	2970	3160	3300	3410	3470
	Amps	10.6	12.0	13.1	14.0	14.6	15.1	15.4
	Lb/h	467	457	441	420	395	368	338
30	Btu/h	43500	41100	38200	35000	31700	28400	25200
	Watts	2500	2800	3060	3290	3470	3620	3720
	Amps	10.8	12.3	13.6	14.6	15.4	16.0	16.5
	Lb/h	531	520	502	480	454	425	395
35	Btu/h	49500	46700	43500	40000	36300	32700	29200
	Watts	2520	2850	3140	3400	3620	3810	3950
	Amps	10.8	12.5	14.0	15.1	16.1	16.8	17.5
	Lb/h	601	588	568	544	517	487	456
40	Btu/h	56000	52800	49200	45300	41300	37300	33500
	Watts	2520	2880	3200	3500	3760	3980	4170
	Amps	10.9	12.7	14.3	15.6	16.7	17.6	18.4
	Lb/h	677	661	639	613	583	552	520
45	Btu/h	63100	59500	55400	51100	46600	42300	38100
	Watts	2500	2890	3250	3580	3880	4140	4370
	Amps	10.8	12.8	14.5	16.0	17.2	18.3	19.2
	Lb/h	758	739	714	686	654	621	587
50	Btu/h	70700	66500	62000	57200	52300	47500	42900
	Watts	2460	2890	3280	3650	3980	4280	4560
	Amps	10.7	12.8	14.7	16.3	17.7	18.9	20.0
	Lb/h	845	822	795	763	729	694	658
55	Btu/h	78800	74100	69000	63700	58300	53100	48000
	Watts	2410	2860	3290	3700	4070	4410	4730
	Amps	10.5	12.8	14.8	16.6	18.1	19.5	20.7
	Lb/h	937	911	880	845	808	770	732

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	-1.284283E+04	-6.556392E+02	-9.477338E+00	-1.260622E+02
C2	8.210148E+02	-5.069994E+00	-1.641412E-01	7.942445E+00
C3	1.009191E+03	5.222568E+01	4.215453E-01	1.036173E+01
C4	1.757948E+01	-4.053640E-01	-1.238561E-03	1.824974E-01
C5	-5.382771E+00	2.137241E-01	3.387620E-03	-4.148929E-02
C6	-9.766835E+00	-2.209578E-01	-2.811701E-03	-8.829374E-02
C7	-1.459330E-03	4.604753E-05	-2.078612E-08	-1.053033E-04
C8	-8.666347E-02	7.401355E-04	-6.041758E-07	-7.316136E-04
C9	2.004069E-02	2.086834E-03	-1.464811E-06	2.604302E-04
C10	2.532037E-02	-1.123626E-04	5.391894E-06	1.875793E-04

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature